## CMOS IMAGE SENSOR USING SHARED TRANSISTORS BETWEEN

## **PIXELS**

## ABSTRACT OF THE DISCLOSURE

A CMOS image sensor that has reduced transistor count is disclosed. The individual pixels are formed by a pinned photodiode and a transfer transistor. An output node receives the signal from the photodiode via the transfer transistor. The output node is shared between multiple pixels. Further, a reset transistor is coupled between a selectable low voltage rail V<sub>ss</sub> or a high voltage reference V<sub>ref</sub> and the output node. The gate of an output transistor is then coupled to the output node. Both the reset transistor and output transistors are shared between multiple pixels.